WHAT IS CLAIMED IS:

1. A method for presenting an optimized selection of alternatives from a plurality of alternative choices to a user through an electronic device, comprising the steps of:

providing an objective model for said plurality of alternative choices, said objective model reflecting at least user-specific weighting factors for said alternative choices;

- applying said objective model to a first ordered selection of choices to derive a recommended selection of choices of optimized order, said optimized order being determined by said objective model; and
- maintaining said recommended selection of choices for presentation to said user through said electronic device substantially in said optimized order.
- 2. The method of claim 1 wherein said objective model further reflects third-party weighting factors.
- 3. The method of claim 2 wherein access to said plurality of alternative choices is provided by a service operator and said method further comprises the step of including in said objective model a weighting factor reflecting preferences of said service operator in presenting alternatives to said user.
- 4. The method of claim 3 wherein at least one of said alternative choices is provided by a third-party advertiser and said method further comprises the step of including in said objective model a weighting factor reflecting preferences of said third-party advertiser in presenting alternatives to said user.
- 5. The method of claim 2 wherein said objective model includes an Objective Function of the form:

$$\sum\nolimits_{\left(v_{i}\,+\,\lambda\right.\,\right)\,b_{i}\,e^{\,\textbf{-}\gamma}\ di}$$

in which the parameters b_i reflect said user-specific weighting factors, the parameters v_i reflect said third-party weighting factors, the variables d_i represent an ordering of said plurality of alternative choices, and the parameters λ and γ are empirically adjusted constants.

- 6. The method of claim 5 wherein the summation in the Objective Function runs only over end alternatives.
- 7. A method for presenting an optimized selection of alternatives from a plurality of alternative choices to a user through an electronic device, comprising:

providing an objective model for said plurality of alternative choices, said objective model including a plurality of user-specific weighting factors;

providing a statistical model for setting the values of at least some of said user-specific weighting factors and applying said statistical model for setting said values;

applying said objective model with said values set by said statistical model to a first ordered selection of choices to derive a recommended selection of choices of optimized order, said optimized order being determined by said objective model; and

maintaining said recommended selection of choices for presentation to said user through said electronic device substantially in said optimized order.

- 8. The method of claim 7 wherein said statistical model includes an estimator of Empirical Bayes formulation for setting said values.
- 9. The method of claim 7 wherein said objective model further reflects third-party weighting factors.
- 10. The method of claim 9 wherein said objective model includes an Objective Function of the form:

$$\sum (v_i + \lambda_i) \; b_i \; e^{-\gamma_i} \; ^{di}$$

in which the parameters b_i reflect said user-specific weighting factors, the parameters v_i reflect said third-party weighting factors, the variables d_i represent an ordering of said plurality of alternative choices, and the parameters λ and γ are empirically adjusted constants.

- 11. The method of claim 10 wherein said statistical model includes an estimator of Empirical Bayes formulation for determining said parameters \mathbf{b}_i .
- 12. A method for presenting an optimized selection of alternatives from a plurality of alternative choices to a user through an electronic device, comprising the steps of:

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providing an objective model for said plurality of alternative choices;

- applying said objective model to a first ordered selection of choices to derive a recommended selection of choices of optimized order, said optimized order being determined by said objective model;
- presenting said recommended selection of choices to said user substantially in said optimized order for further selection of an end alternative by said user;
- when said end alternative calls for entry of data by said user, applying said objective model to derive a recommended selection of prefill data objects; and presenting said recommended selection of prefill data objects to said user.
- 13. A method for presenting an optimized selection of alternatives from a plurality of alternative choices to a user through an electronic device having a display capable of showing only a characteristic number of choices to the user at a time, comprising the steps of:
 - providing an objective model for said plurality of alternative choices, said objective model reflecting at least user-specific weighting factors for said alternative choices;
 - applying said objective model to a first ordered selection of alternative choices to derive a recommended selection of alternative choices of optimized order, said optimized order being determined by said objective model; and
 - maintaining at least a portion of said recommended selection of alternative choices for presentation to said user a fixed number at a time substantially in said optimized order, said fixed number being at most the characteristic number said device is capable of displaying at a time.
- 14. The method of claim 13 wherein said objective model further reflects third-party weighting factors.
 - 15. The method of claim 13 further including:
 providing a statistical model for setting the values of at least some of said user-specific
 weighting factors and applying said statistical model for setting said values.
- 16. The method of claim 15 wherein said statistical model includes an estimator of Empirical Bayes formulation for setting said values.

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17. A method for presenting an optimized selection of alternatives from a plurality of alternative choices to a user through an electronic device, said plurality of alternative choices forming an initial ordered data structure, the method comprising:

defining a plurality of characteristic groups of users;

- for a given user, transforming said initial ordered data structure into a reduced data structure associated with at least one of said characteristic groups;
- applying an objective model to said reduced data structure, said objective model including parameters particularized to said given user, to derive a recommended data structure for said given user.
- 18. The method of claim 17, further comprising:
- applying a content filter to at least one of said initial data structure, said reduced data structure and said recommended data structure, thereby to provide a refined recommended data structure.
- 19. The method of claim 18, wherein said content filter is applied to one of said initial data structure and said reduced data structure before said objective model is applied.
- 20. The method of claim 18, wherein said content filter is applied after said objective model is applied.
- 21. A method for presenting an optimized selection of alternatives from a plurality of alternative choices to a user through an electronic device, said plurality of alternative choices forming an initial ordered data structure, the method comprising:
 - applying a content filter to said initial ordered data structure to define a reduced data structure; and
 - applying an objective model to said reduced data structure, said objective model including parameters particularized to a given user, to derive a recommended data structure for said given user.
- 22. In a system in which a user can access a number of software applications with an electronic device, said device having a display for presenting the user with a number of alternative choices, a method for providing data to a software application in response to a request for data entry by said software application, comprising:

determining a characteristic type of data appropriate for filling said request for data entry; associating a probability of relevance to a plurality of other instances of data of said characteristic type associated with said user; and ordering said plurality of other instances substantially in accordance with said probability of relevance for presentation to said user.